

# ISO 10924-1:2016-04 (E)

## Road vehicles - Circuit breakers - Part 1: Definitions and general test requirements

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Marking, labelling and colour coding .....</b>	<b>5</b>
<b>5</b>	<b>Tests and requirements .....</b>	<b>5</b>
5.1	General .....	5
5.1.1	General test conditions .....	5
5.1.2	General performance requirements .....	6
5.2	Voltage drop .....	6
5.2.1	Purpose .....	6
5.2.2	Test .....	6
5.2.3	Requirement .....	6
5.3	Maximum housing temperature .....	6
5.3.1	Purpose .....	6
5.3.2	Test .....	6
5.3.3	Requirement .....	6
5.4	Environmental conditions .....	7
5.4.1	Purpose .....	7
5.4.2	Mechanical loads .....	7
5.4.3	Climatic loads .....	7
5.4.4	Chemical loads .....	7
5.5	Operating time rating .....	7
5.5.1	Purpose .....	7
5.5.2	Test .....	8
5.5.3	Requirement .....	8
5.6	Current steps .....	8
5.6.1	Purpose .....	8
5.6.2	Test .....	8
5.6.3	Requirement .....	8
5.7	No current trip and reset temperature .....	8
5.7.1	Purpose .....	8
5.7.2	Test .....	8
5.7.3	Requirement .....	9
5.8	Absolute breaking capacity .....	9
5.8.1	Purpose .....	9
5.8.2	Test .....	9
5.8.3	Requirement .....	9
5.9	Breaking capacity .....	9
5.9.1	Purpose .....	9
5.9.2	Test .....	10
5.9.3	Requirement .....	10
5.10	Strength of terminals .....	10
5.10.1	Purpose .....	10
5.10.2	Test .....	11
5.10.3	Requirement .....	11
5.11	Endurance .....	11

5.11.1	Purpose .....	11
5.11.2	Test .....	11
5.11.3	Requirement .....	11
5.12	Dielectric strength .....	12
5.12.1	Purpose .....	12
5.12.2	Test .....	12
5.12.3	Requirement .....	12
Annex A (informative)	Cycling profiles .....	13
Annex B (informative)	Test circuit .....	15